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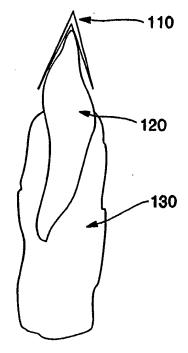


FIG. 4

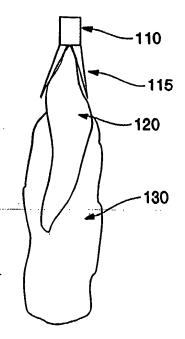


FIG. 5

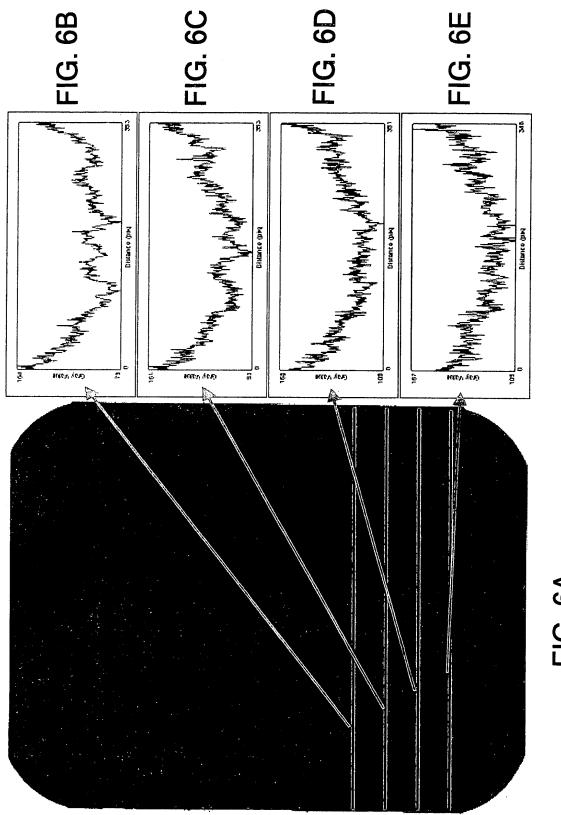
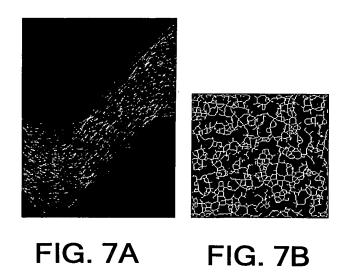


FIG. 6A



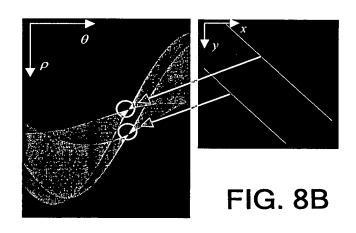


FIG. 8A

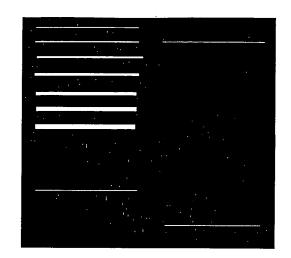
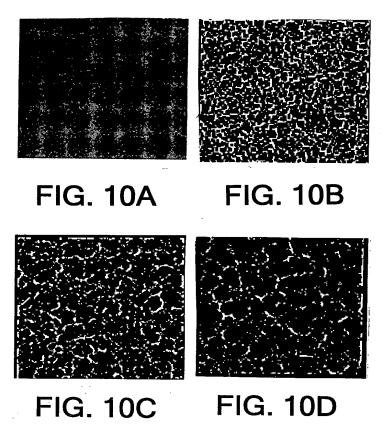


FIG. 9



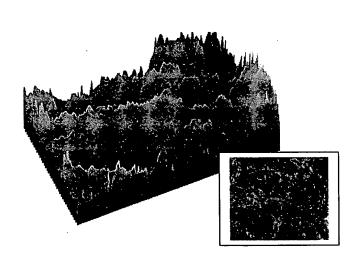


FIG. 11

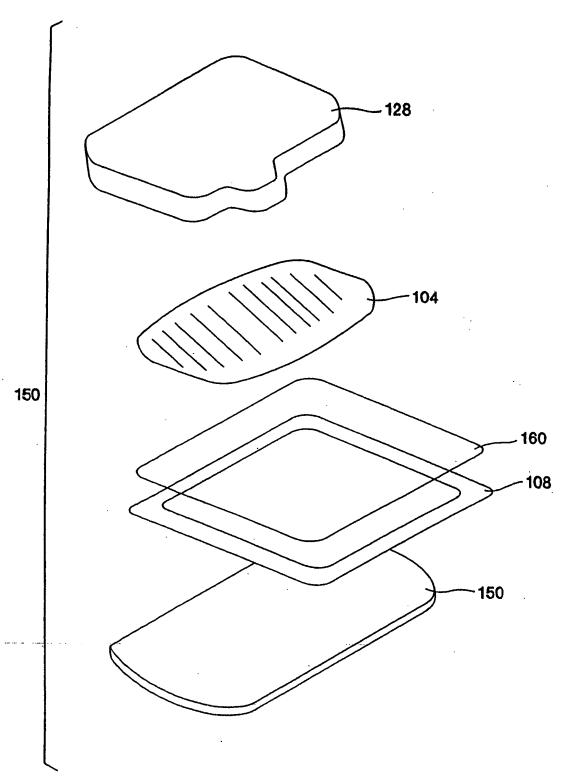


FIG. 12

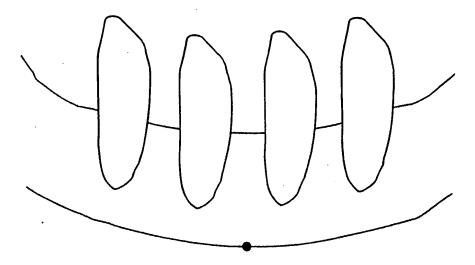


FIG. 13

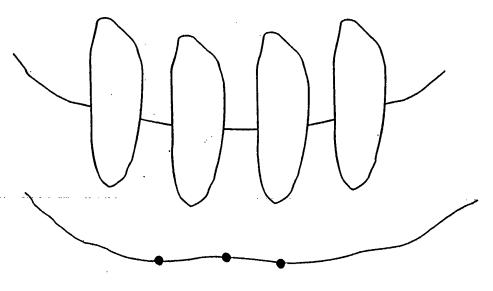


FIG. 14

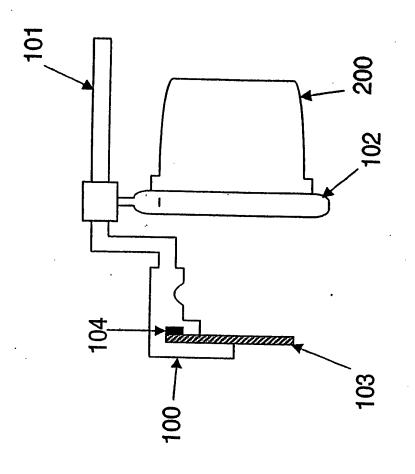
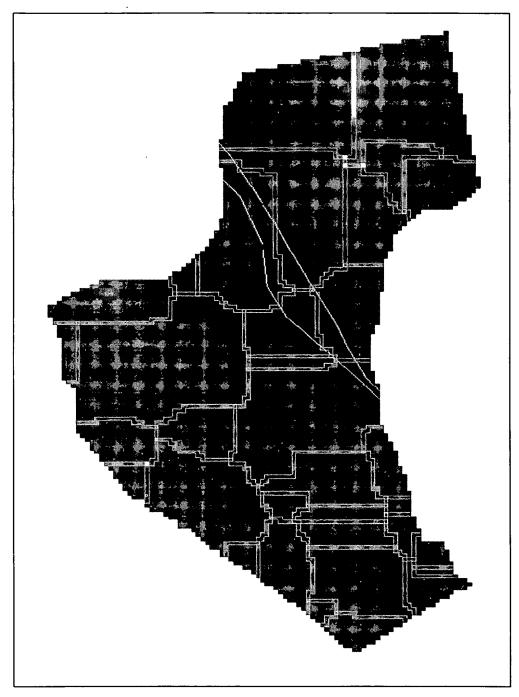


FIG. 15



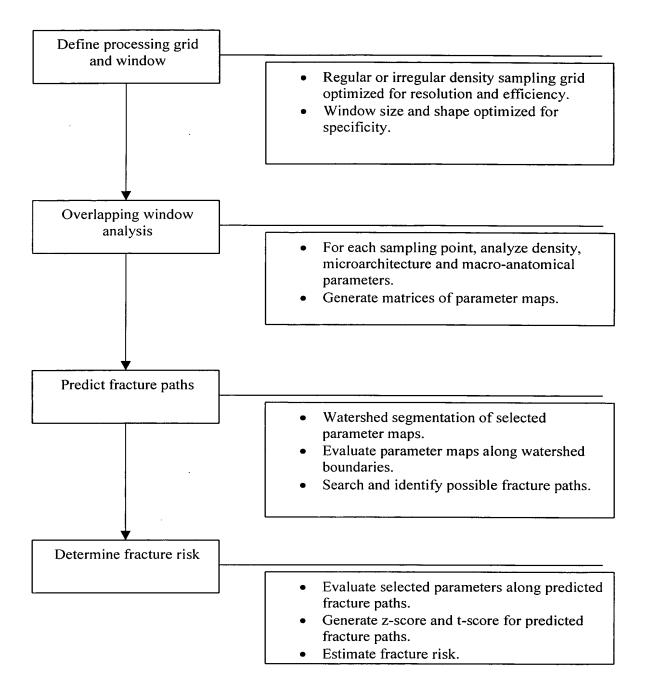
An example of a regular interval sampling field for microarchitecture (+) and a higher density sampling field for macro-anatomical features(*) on a femur radiograph.

FIG. 16



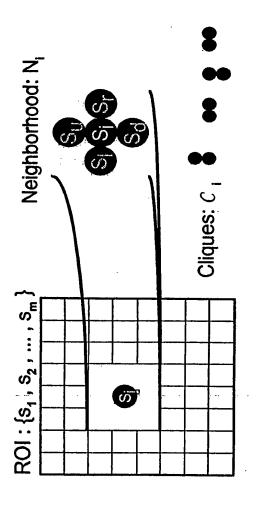
Watershed segmentation boundaries superimposed on a parameter map. The two white lines are the actual fracture paths resulted from an in-vitro mechanical loading test.

FIG. 17



Process to determine fracture risk using overlapping window processing and fracture paths prediction.

FIG. 18



Si:{F1i, F2i, ..., Fni} -> feature set at site Si

Joint distribution of feature set given neighboring sets: $P(s_i \mid s_k \ , \ s_k \in ROI) = P(s_i \mid s_k \ , \ s_k \in N_i \)$

FIG. 19

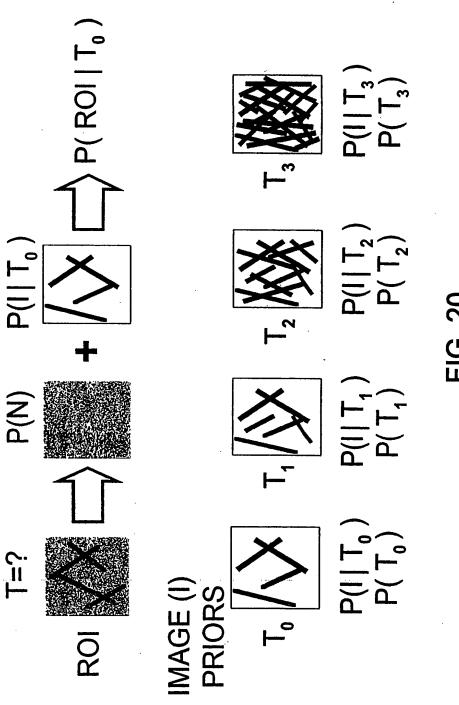
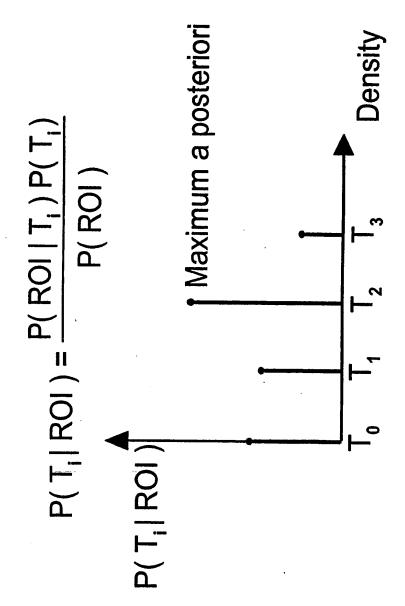


FIG. 20





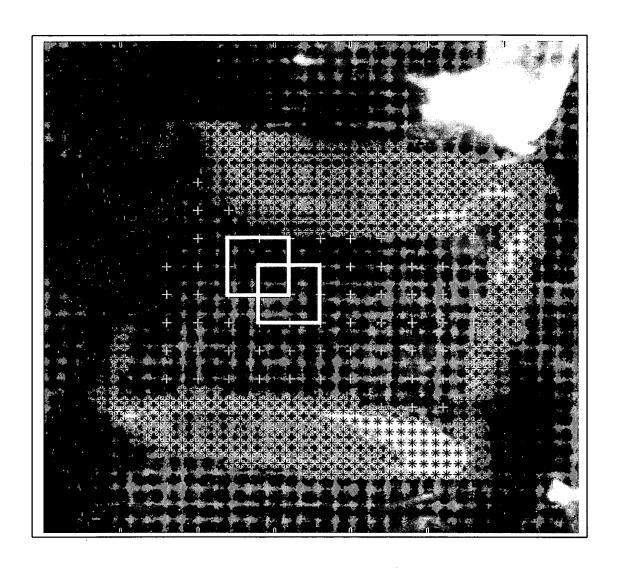


FIG. 22

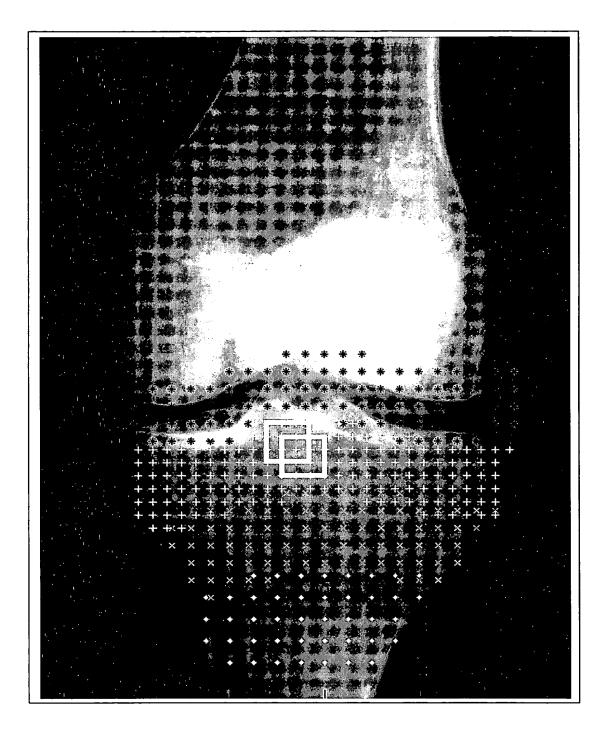
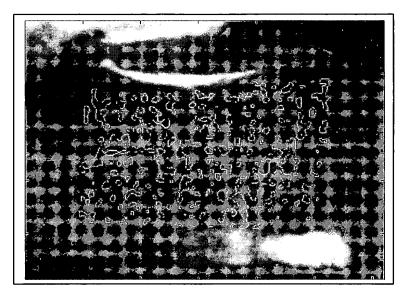
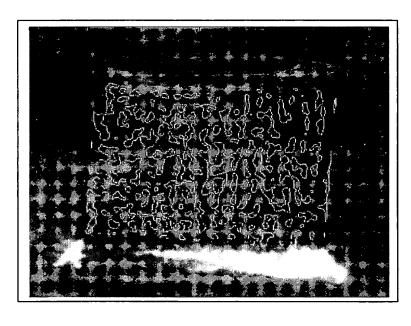


FIG. 23



(a)



(b)

FIG. 24

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